



# Packaging For United Nations Conformance

Performance Oriented Packaging  
(POP)

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# Performance Oriented Packaging Goal



- **Performance Oriented Packaging:**
  - a type of packaging required for hazardous materials which is approved based on the ability of the packaging to perform to a specified level of integrity when subjected to **performance tests**



# Performance Oriented Packaging Goal



- Make tested packaging designs available to DoD
- Educate HAZMAT packers/certifiers to UN requirements
- Provide POP program and related support to DoD users



# Performance Oriented Packaging Goal



- **To assure DoD offers hazardous materials for transportation in tested packagings that conform to United Nations recommendations**
  - Packagings must withstand normal transportation with no leakage of contents
  - Provide a desirable level of safety for people, property and the environment.



# Performance Oriented Packaging Testing



- **Tested Configurations**

- In order to be shipped, non-bulk hazardous shipments must be packaged in configurations that pass **DESIGN SPECIFICATION TESTING:**

**Drop Test**

**Stack**

**Test**

**Leakproofness Test**

**Hydrostatic Test**

**Vibration**

**Test**



# Performance Oriented Packaging Testing



- **DLA Testing Program - Non-Ammunition**
  - Tests Performed by DoD Labs
    - LOGSA, Tobyhanna
    - PA
    - LSO/LOP, Wright Patterson
    - AFB OH
    - Naval Undersea Warfare Center,
    - Keyport WA



# Performance Oriented Packaging Training



- **Training requirements**
  - Familiarization with general provisions of applicable modal regulations:
    - IATA, IMDG, 49 CFR, DLAI4145.3
- **CFR 49 Required Hazmat Training**
  - General Awareness
  - Function Specific
  - Safety and Emergency Response



# Performance Oriented Packaging Training



- **Initial Training:** within 90 days of employment or move to Hazardous Position
  - Applicable to:

Packers, certifiers, recoupment workers, stock maintenance personnel, surveillance inspectors, quality control workers

-Refresher Training

- DOT **mandatory** every 3 years

- AFJMAN / IATA requires retraining every 2

years.



# Performance Oriented Packaging Training



- **DLA Training Plan**

- Mandatory for

- **HAZMAT employees performing the following duties**

- Packagers
    - Supervisors and leaders
    - Certifiers
    - Recoupment workers
    - Stock maintenance
    - Surveillance inspectors
    - Quality assurance workers



# Performance Oriented Packaging Training



- **DLA Training Plan**

- Training opportunity for

- **Distribution employees performing the following duties**

- Receipt acceptances
    - Supervisors and leaders
    - PPP & M and packing
    - Material handling
    - Woodworking
    - Surveillance inspectors
    - Terminal operations



# Performance Oriented Packaging Training-Fines for Non-Conformance



- **Ruling March/April 1998:**
- Case No. 96-106-TRN-EA  
December 11, 1997, Chemical Shipper
- Civil Penalty agreed: \$5,495.00
- Violations: 49CFR Para. 171.2(a), 172.202 ©, 172.203(k), 172.204(a) & (d)(1), 172.301 (a)(1), 172.702(a) and 172.704(d).

- **Resolution:** Respondent desisted from practices of allowing employee who had not received proper training from performing hazmat functions; offering for transportation in commerce a hazardous material when accompanying shipper paper did not contain material's technical name and identification number.

## Allowable Fines - CFR 49

Failure to train hazmat employees in the three areas of training...>10 employees  
\$2400.00 and up

Failure to train hazmat employees in any one of the three required areas of training...>10 employees \$ 800.00 and up

Failure to maintain training records...> 10 employees  
\$ 800.00 and up



# Performance Oriented Packaging Training



## • Training Program

- Initial Course DLA R530
- Refresher Course DLA R630
- Class size 15-18
- 2-day class
- DDC budgets DLA Training
- Military Services reimburse

DDC

- TDY expenses only



# Performance Oriented Packaging Training



- **Course Syllabus**

- Packagings subject to/exempt from POP Packaging
- Interpreting the UN codes
- Container marking requirements
- Preparation of shipping papers
- “Hands On” use of the Program to obtain tested packaging configurations



# Performance Oriented Packaging Training



- **FY99 POP Training\_**
  - DDC Defense Depot requests  
30\*
  - Other Military Requests  
15\*

\* Numbers of Classes



# Performance Oriented Packaging POP Program



- **Program**

- Current Version POP 2.34
- DDC WEB Page link to POP Program

**[www.ddc.dla.mil/  
pop](http://www.ddc.dla.mil/pop)**



# Performance Oriented Packaging POP Web Site



## Features:

### Download POP Program

### Question & Answer Corner

- Share lessons learned, interpretations of regulations, current practices

### View Training Schedule Announcements

- View special announcements/news releases

### Links to Other Hazmat Sites



# Performance Oriented Packaging Program Redesign



- **Program Redesign**
  - Contract awarded to Intellimark 8/99
  - Windows 95 platform
  - Expected completion May 2000



# Performance Oriented Packaging Program Redesign



- Redesign features
  - State of the art software platform including:
    - drop down menus
    - graphics capability
    - hazmat data dictionary
    - help screens
    - real time updates
    - real time access to program on DDC Web page



# Performance Oriented Packaging Program Redesign



- Redesign features
  - WEB links to other sites, CAA's, SPI's, HMIS, HTIS
  - ability to identify users
  - tracking of packaging configuration usage/expiration date



# Performance Oriented Packaging Program Redesign



- Future enhancements
  - Training package for new Windows Version
  - Initial POP Training with live instructor
  - Refresher Training Option
    - use live instructor learning
    - use distributed learning course (to be developed)



# Performance Oriented Packaging Summary



- POP Program is **YOUR** program
  - Users can:
    - Make input to the redesign
    - Use Web Page as central information resource
      - Contribute to Bulletins and announcements
      - Share Training schedules with all of DoD
      - Share lessons learned
  - Contribute to the training package updates



# Performance Oriented Packaging Summary



- **POP Program is a DoD Resource**
- **Training available**
  - Some FY00 dates still available
    - Education is the key to safe transport of hazardous materials
    - Complies with modal and DoD regulations
- **Packaging specialists available for your assistance**
  - Watch the web page for new information and Initiatives



# **Performance Oriented Packaging DDC-TO Points of Contact**



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# Performance Oriented Packaging

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**Thank You!**

**Any Questions?**